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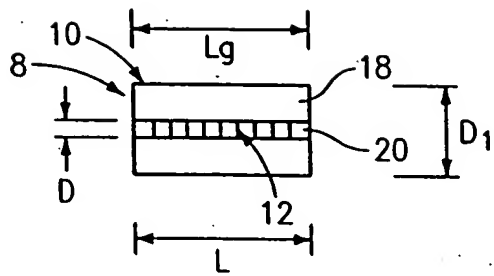


FIG. 1

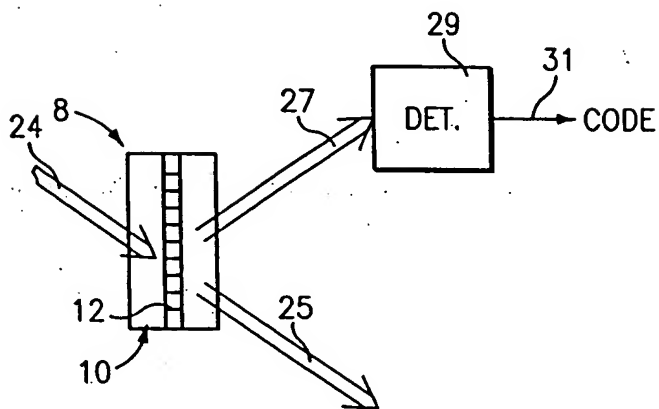


FIG. 2

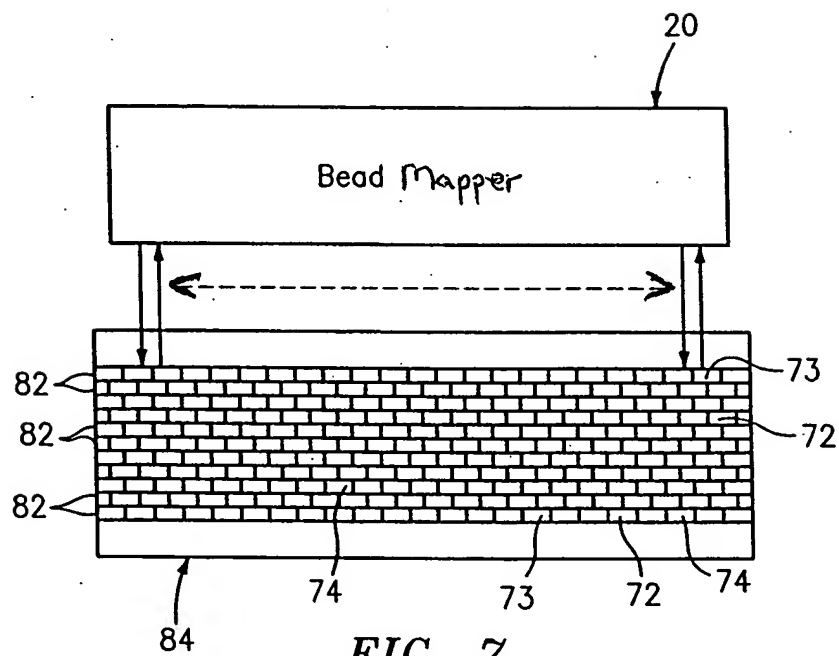
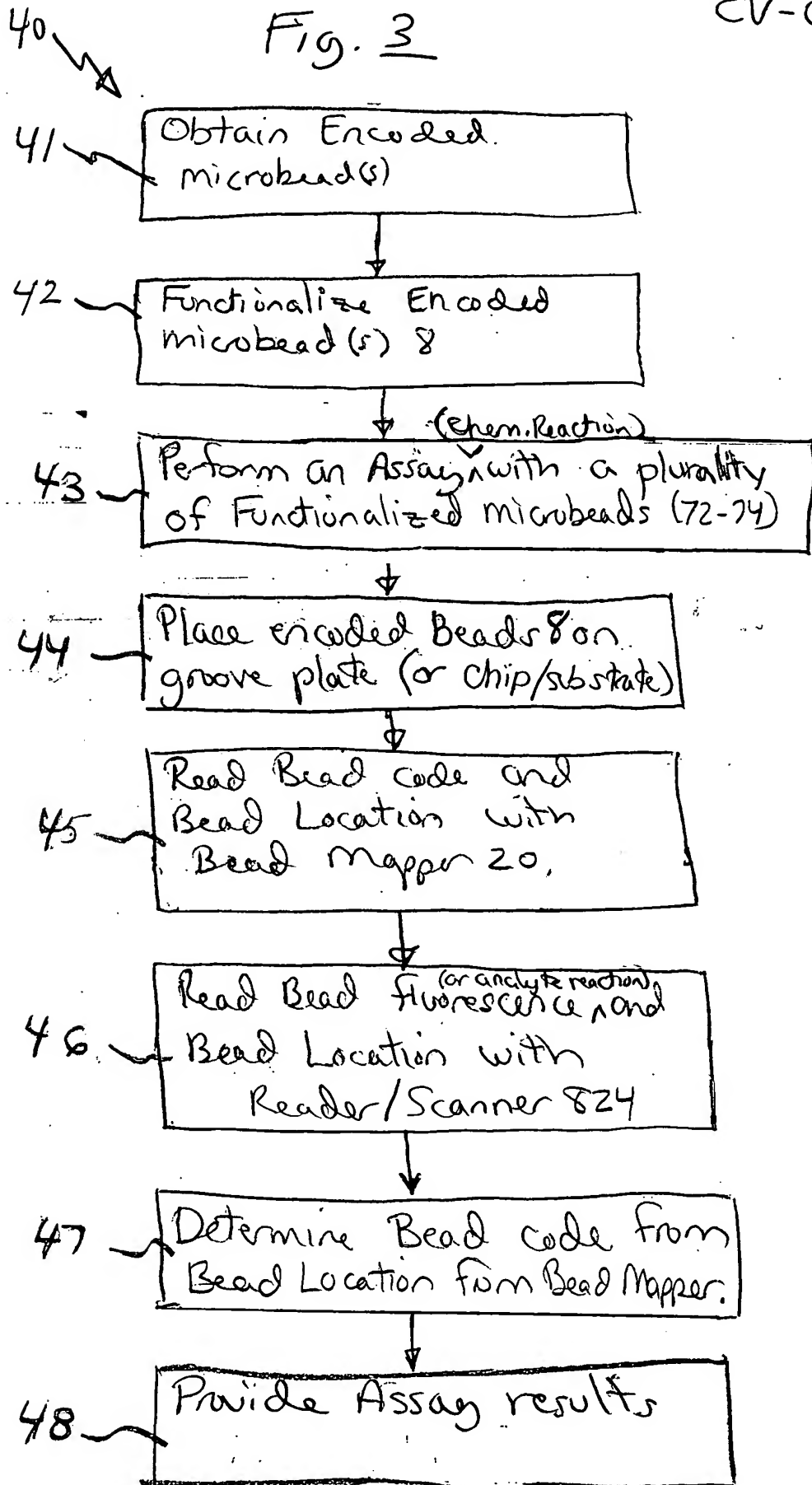
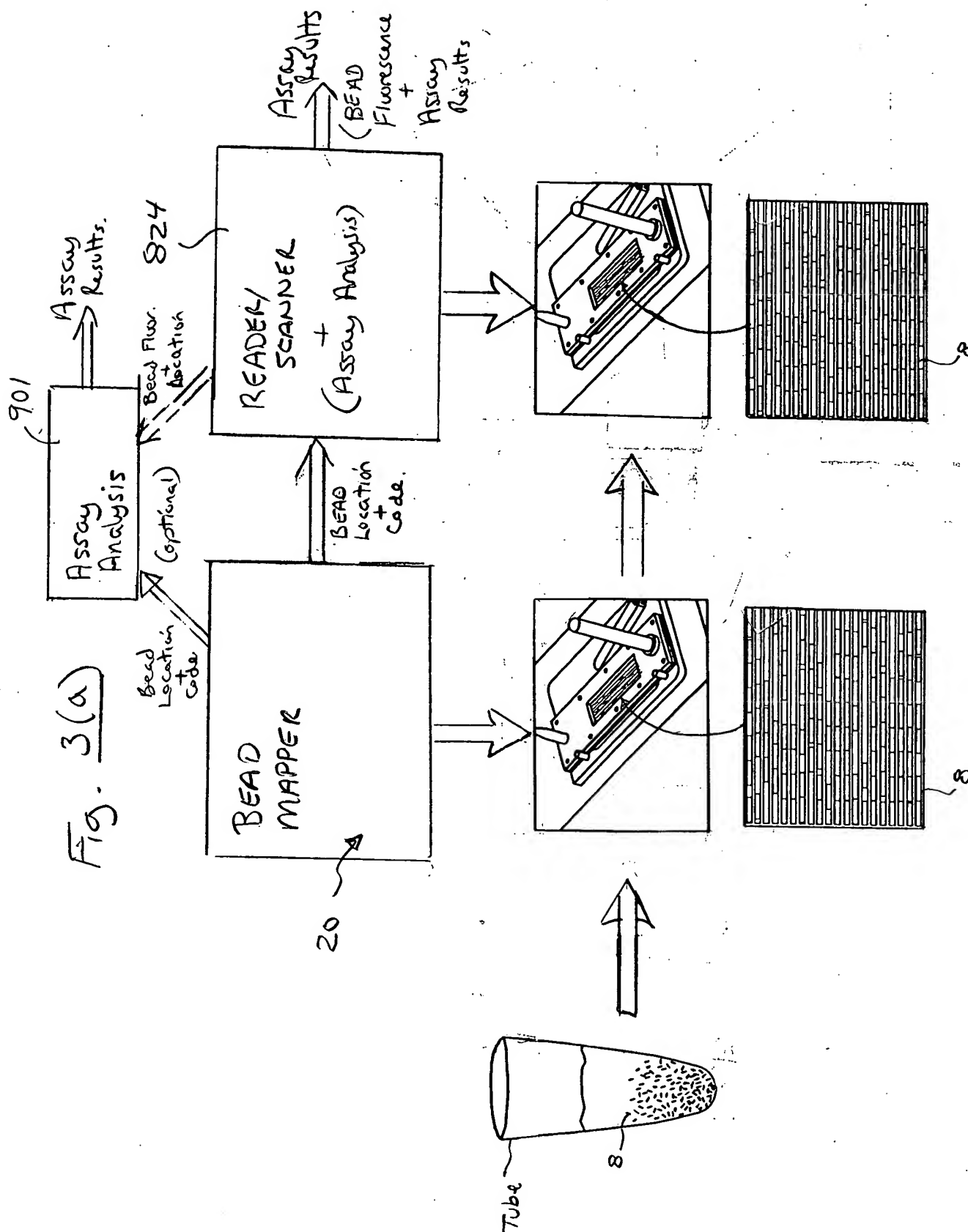


FIG. 7

Fig. 3





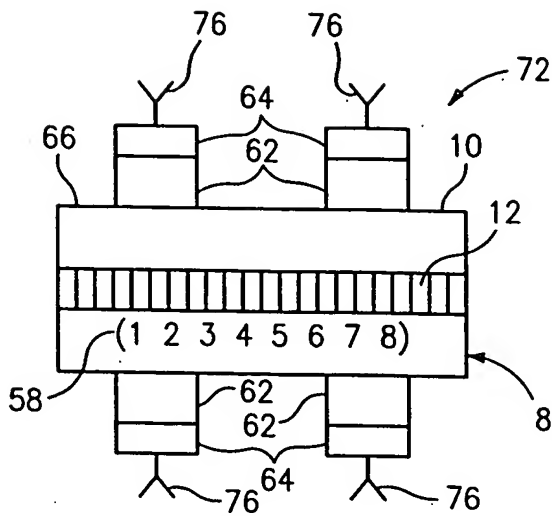


FIG. 4

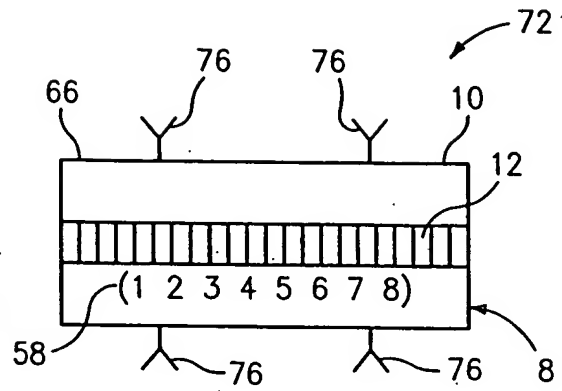


FIG. 5

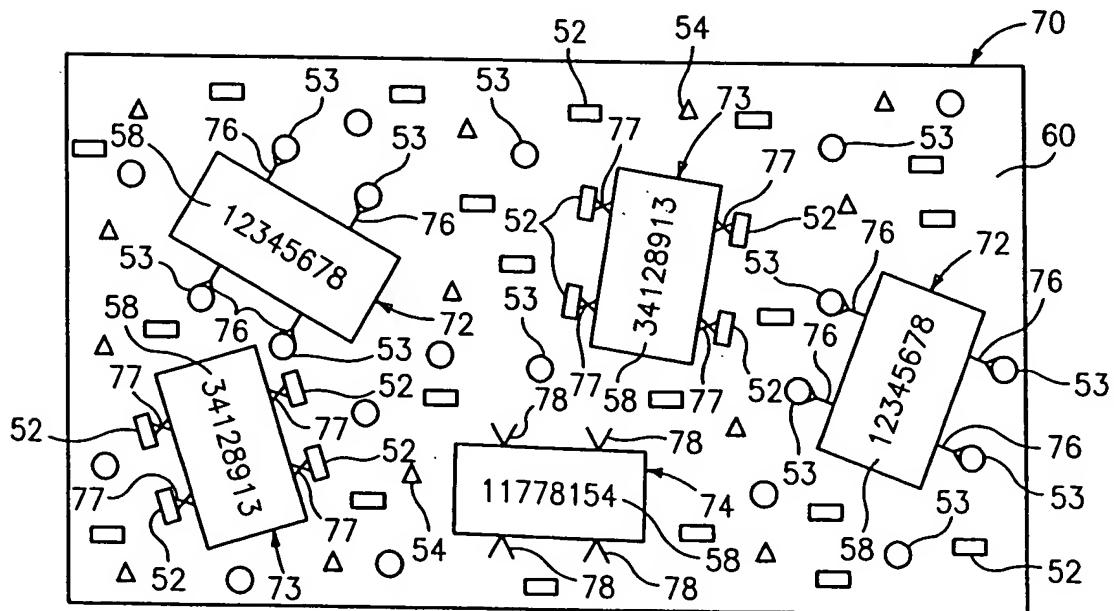


FIG. 6

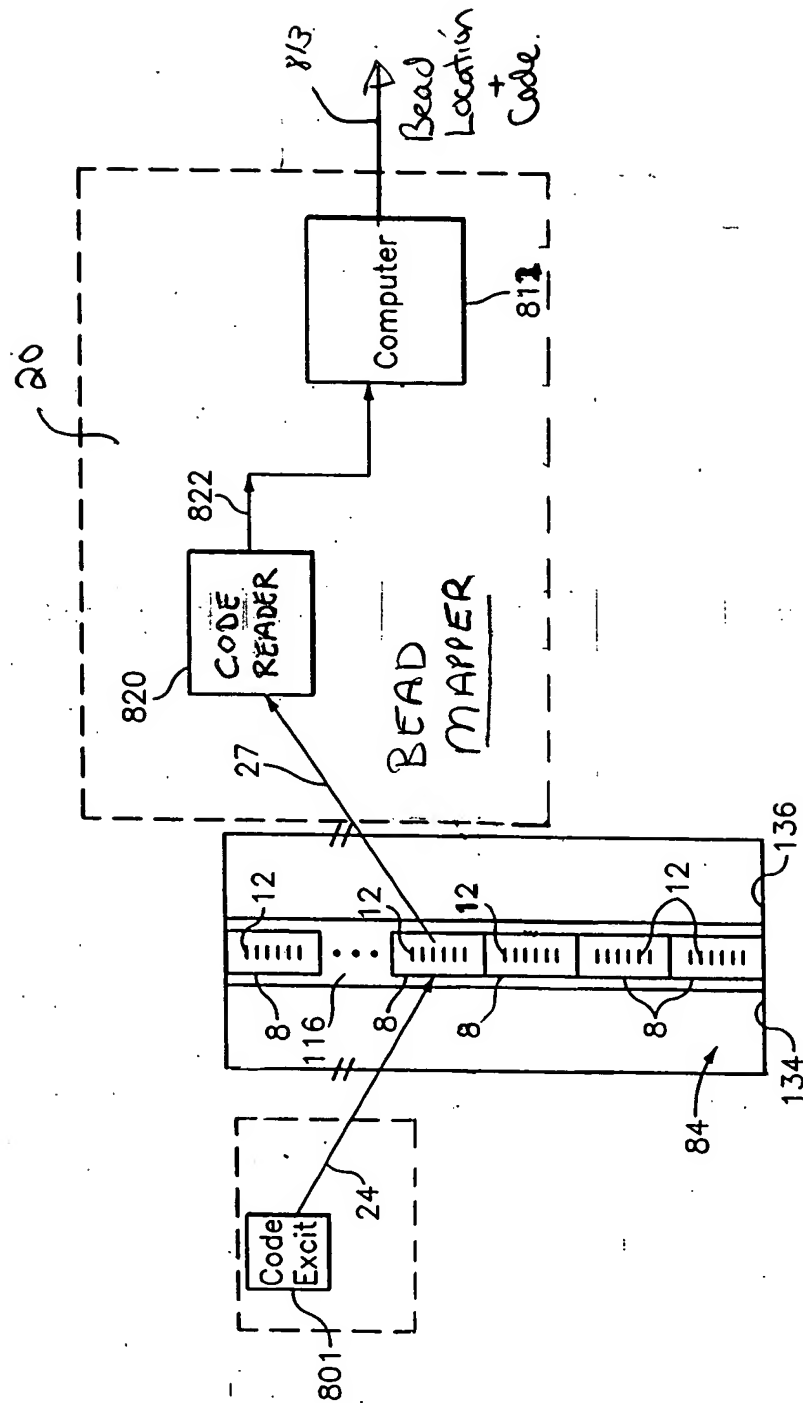


FIG. 8

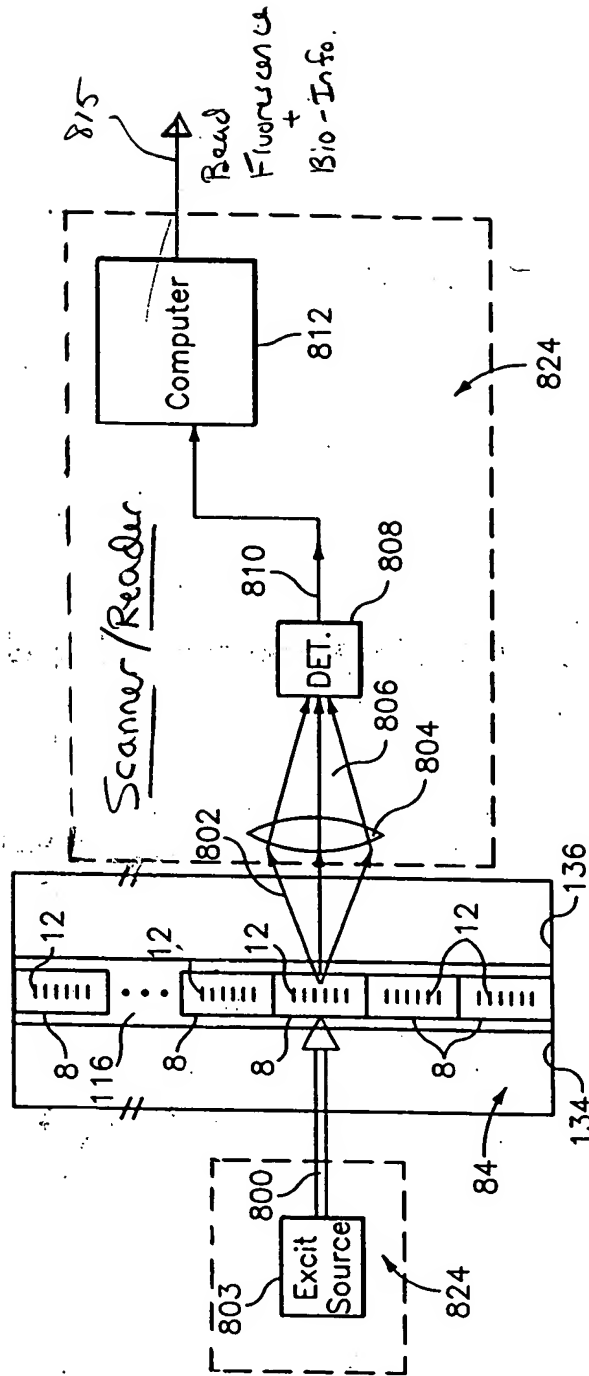


FIG. 9

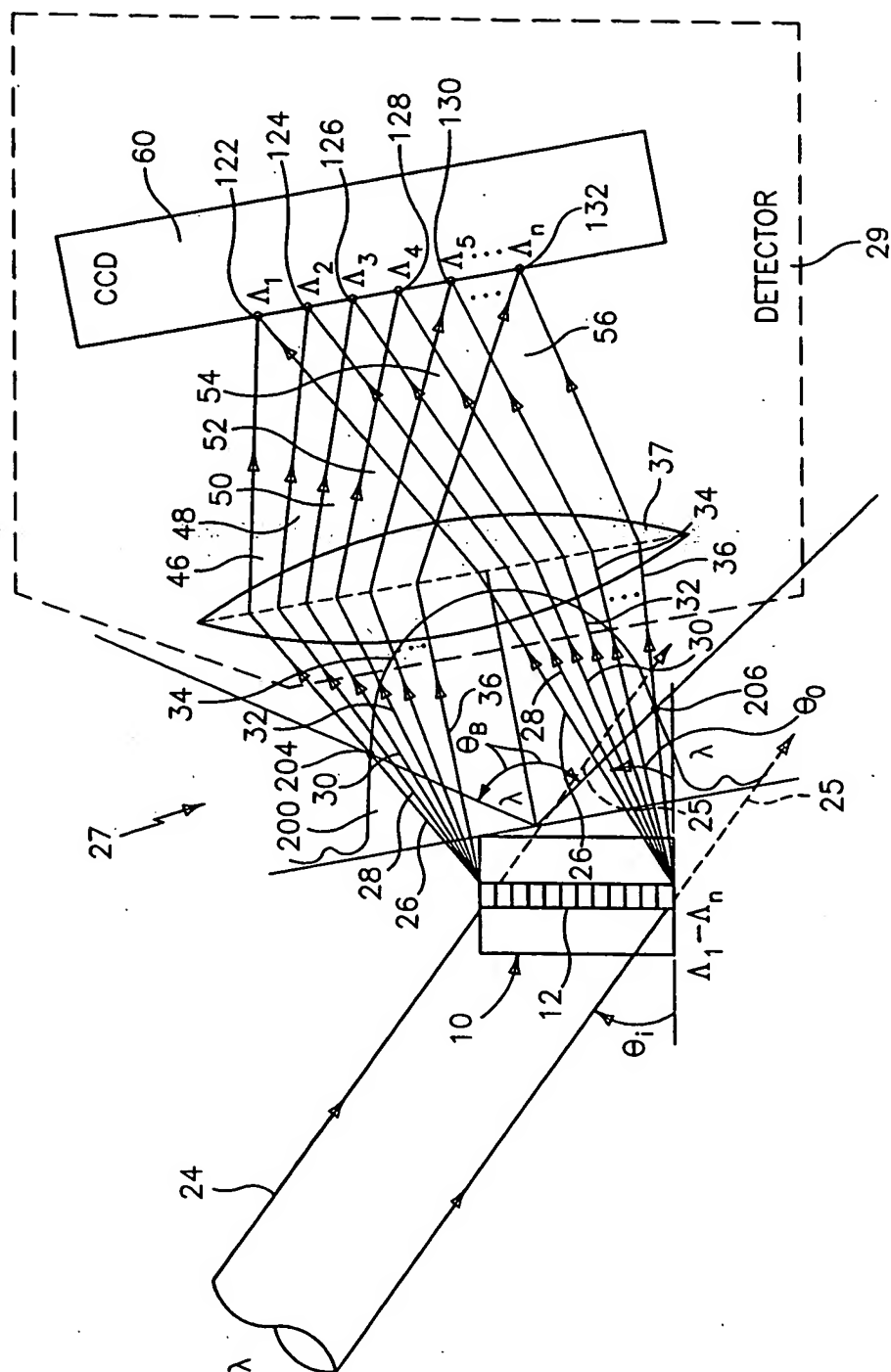


FIG. 10

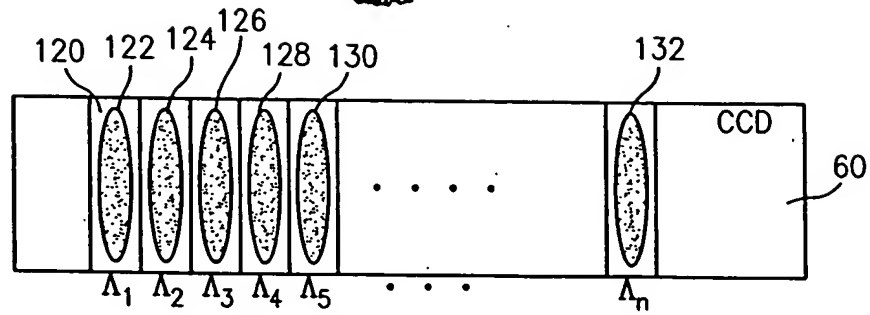


FIG. 11

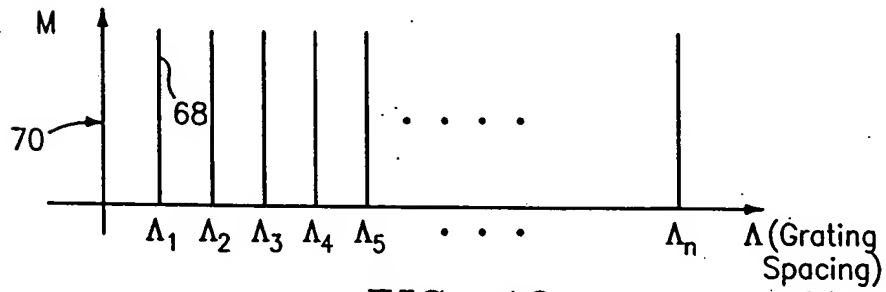


FIG. 12

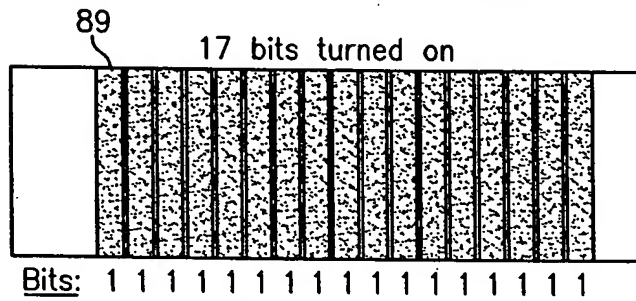


Illustration (a)

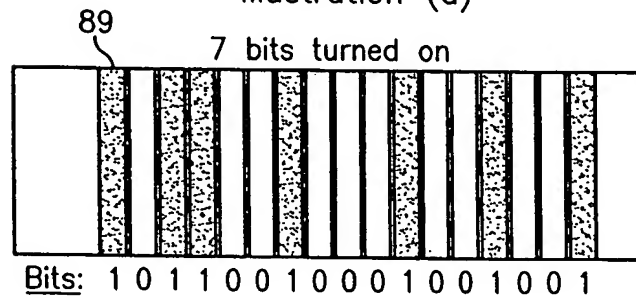


Illustration (b)

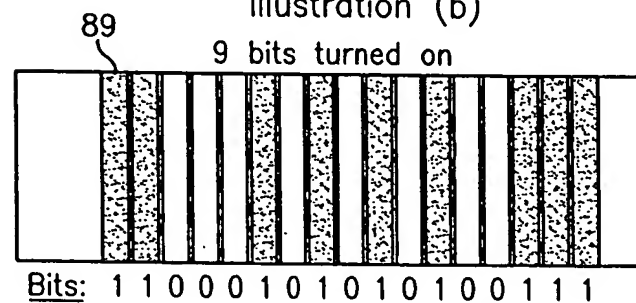


Illustration (c)

FIG. 13

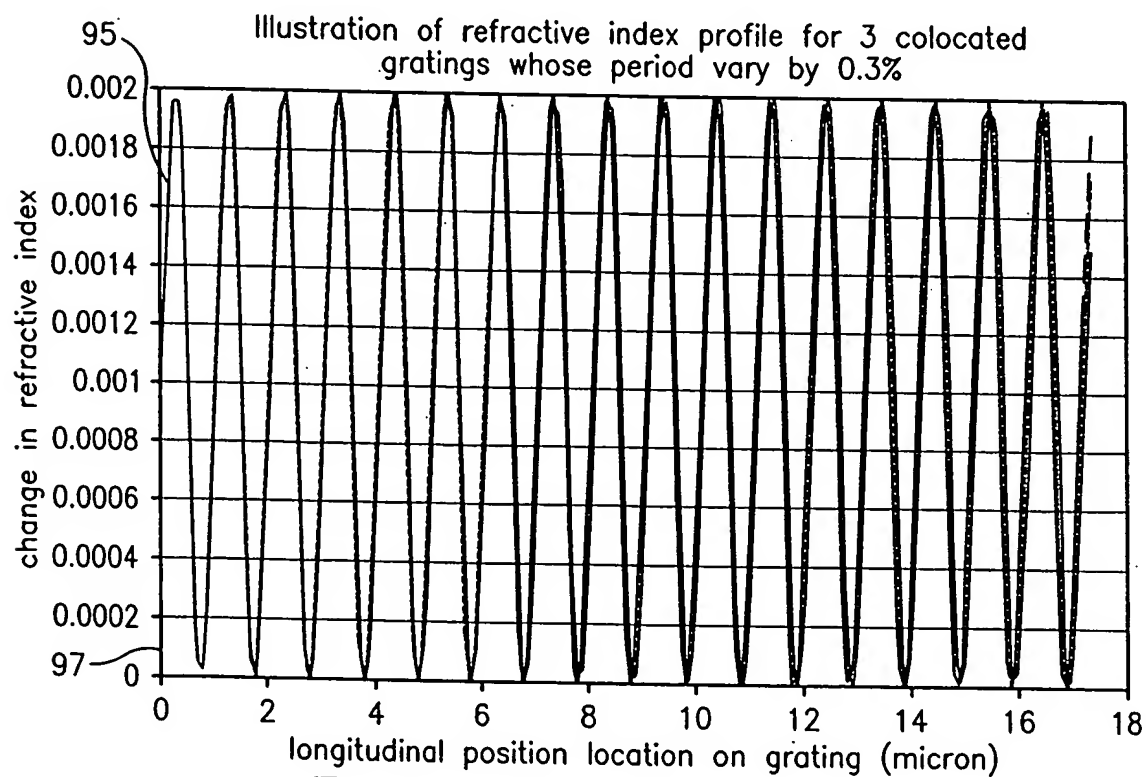
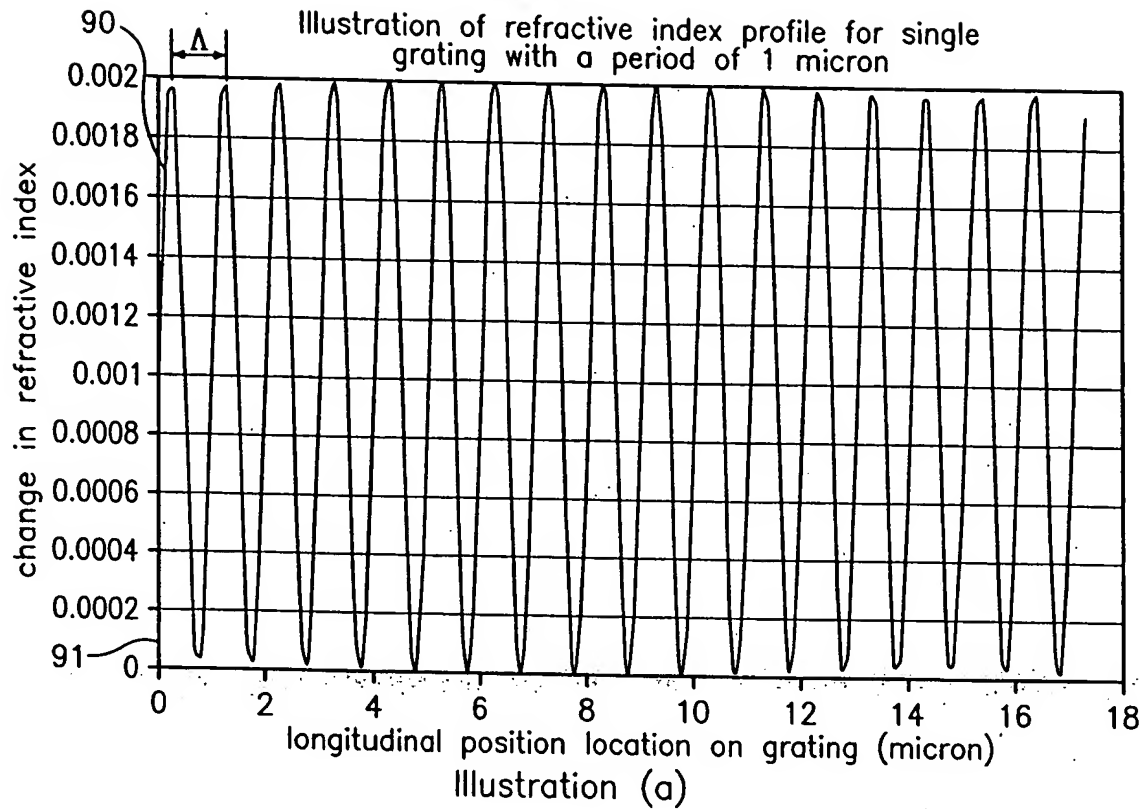


FIG. 14

--- grating 1 — grating 2 — grating 3

Illustration (c)

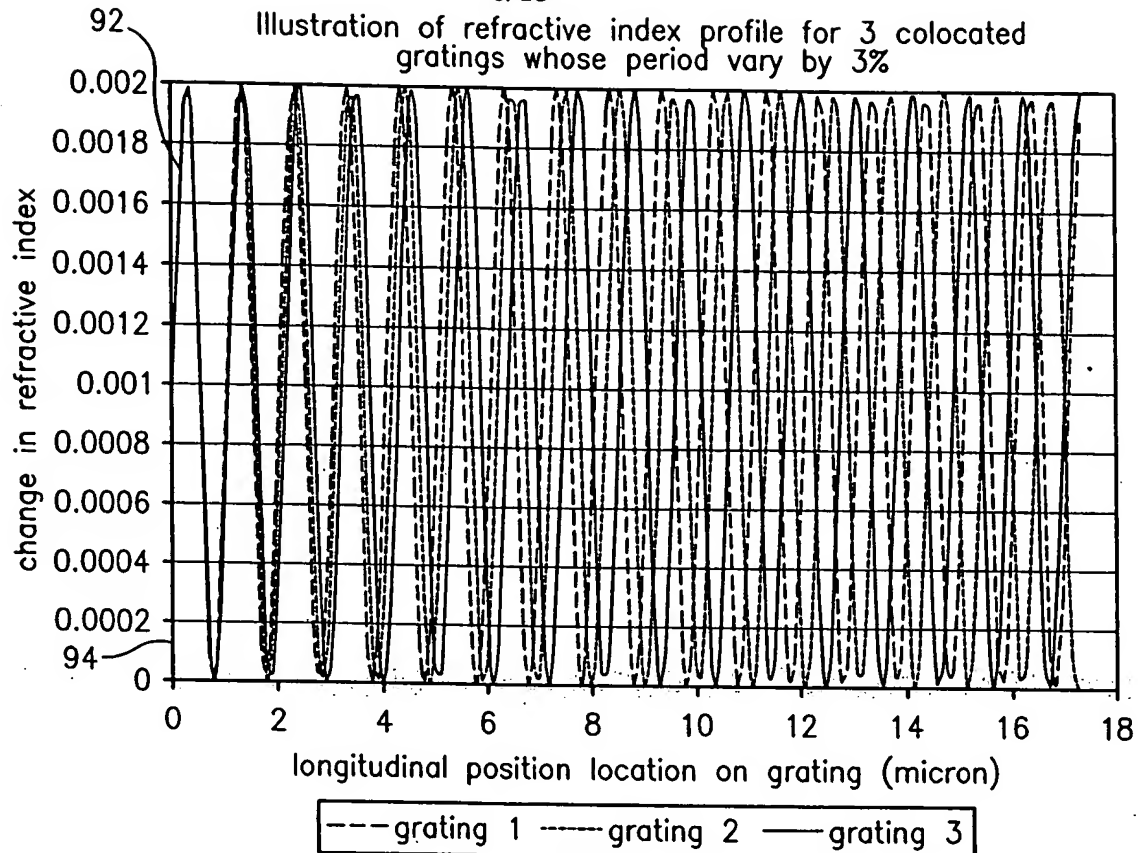


Illustration (b)

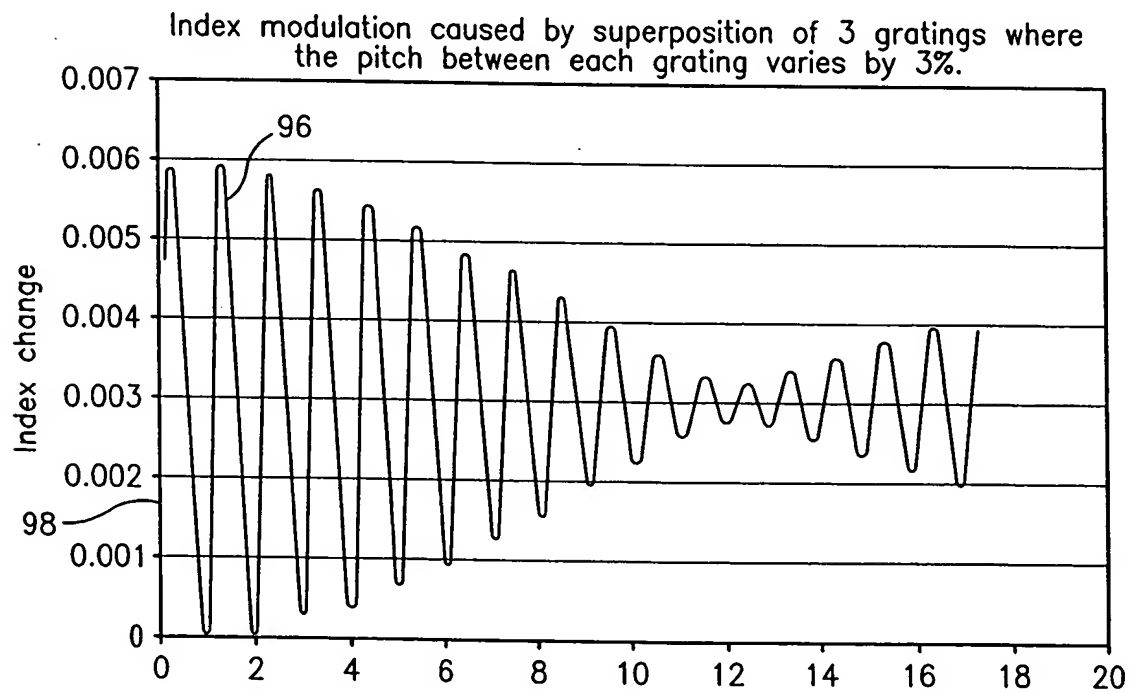


FIG. 14

Illustration (d)

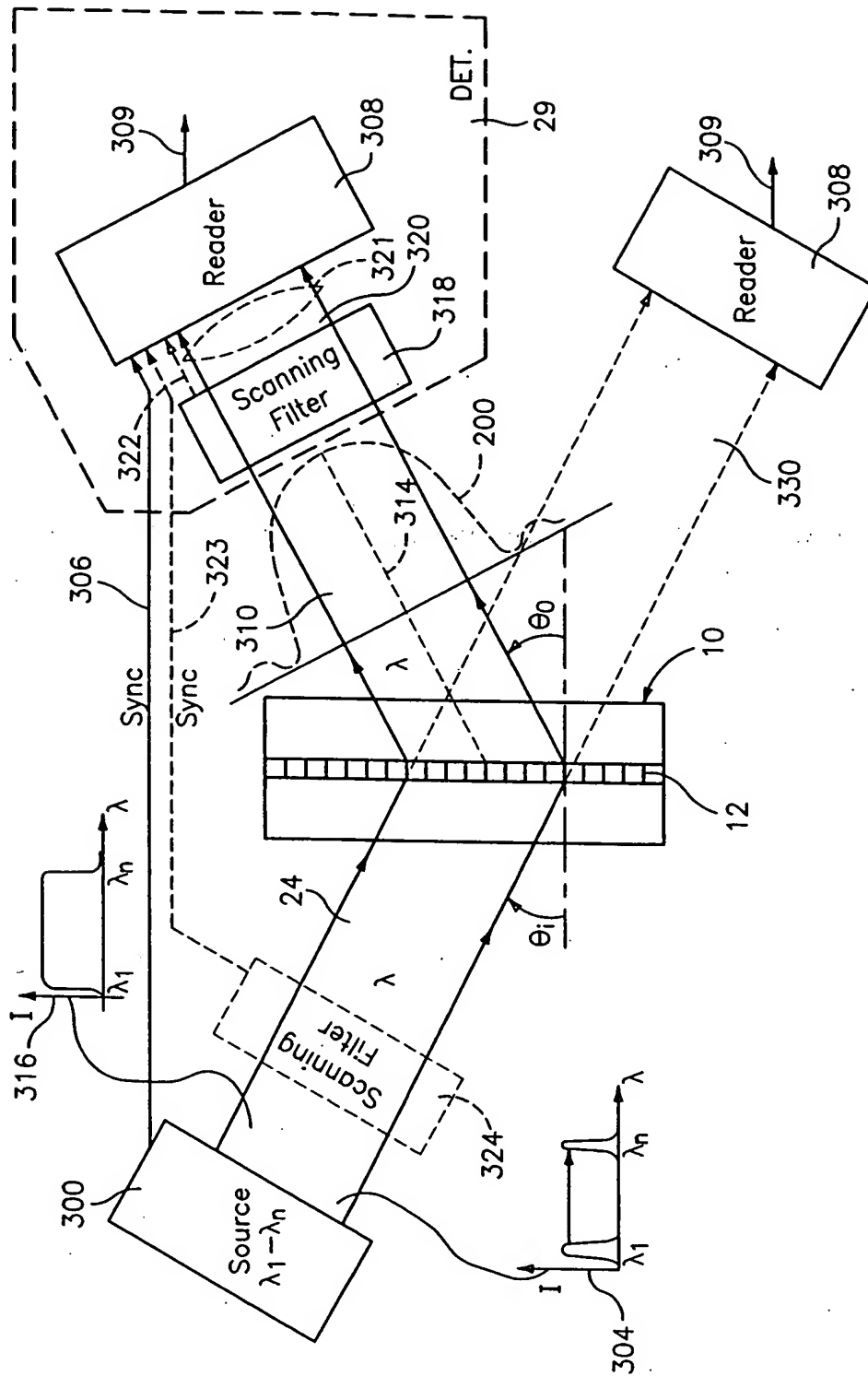
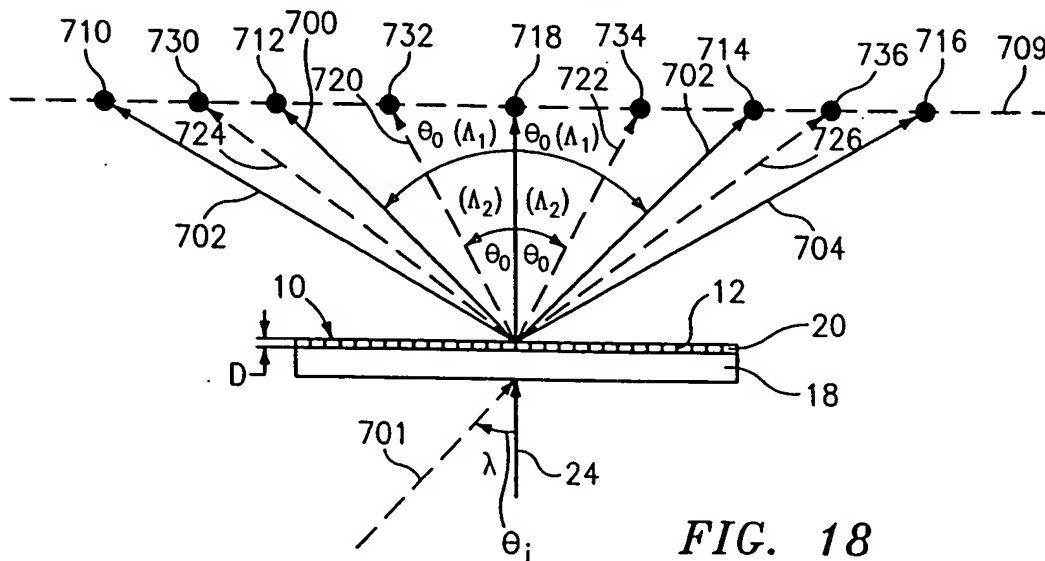
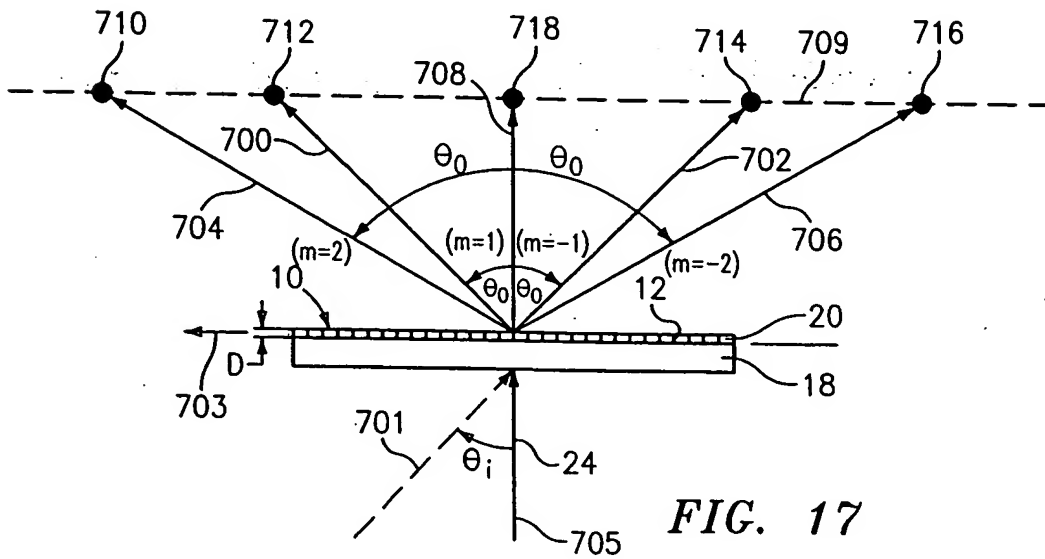
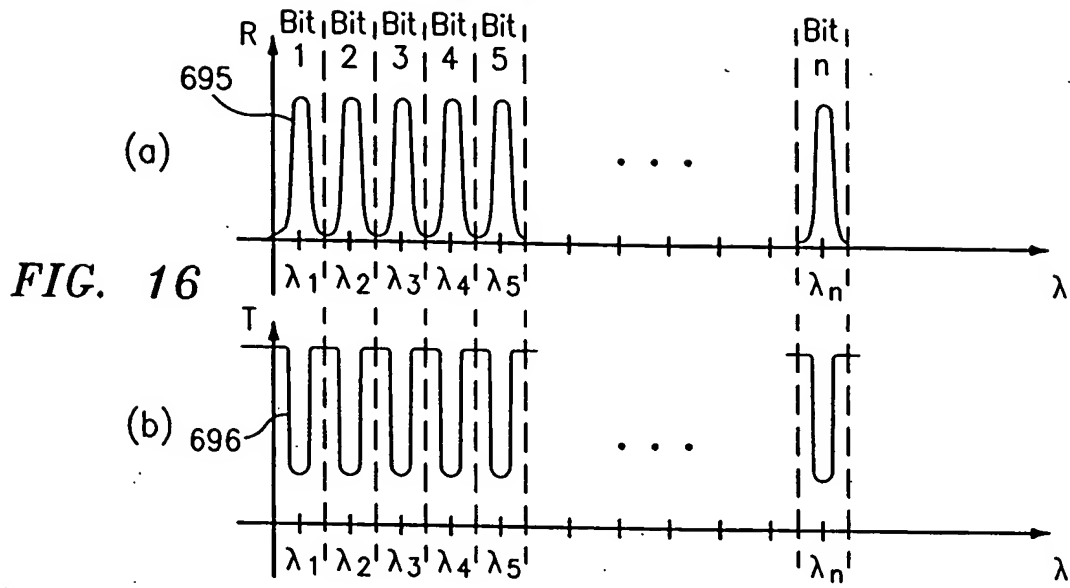


FIG. 15



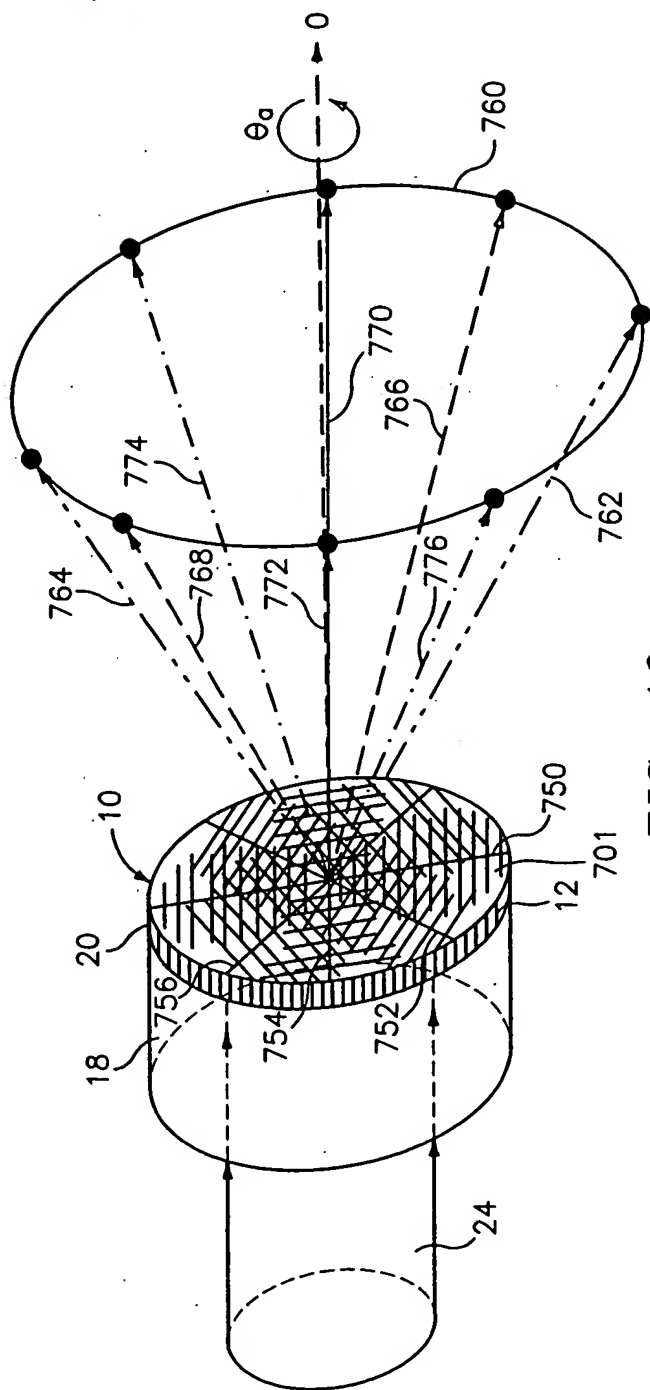


FIG. 19

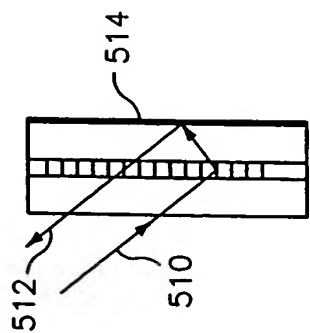


FIG. 36

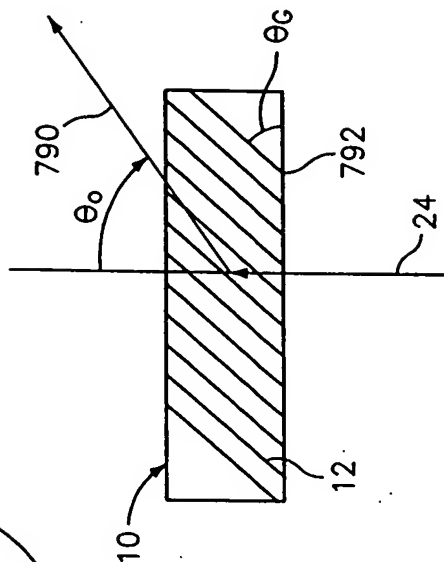


FIG. 20

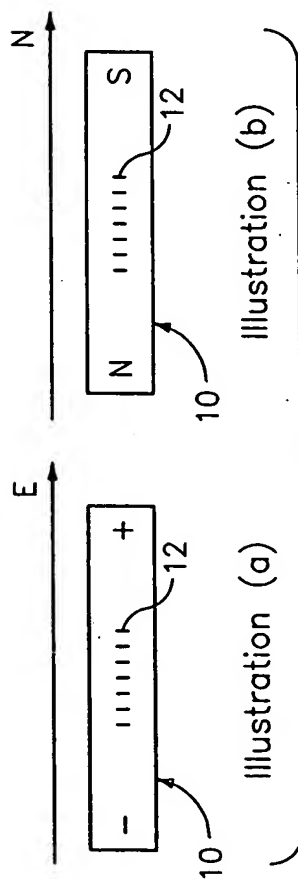


FIG. 37

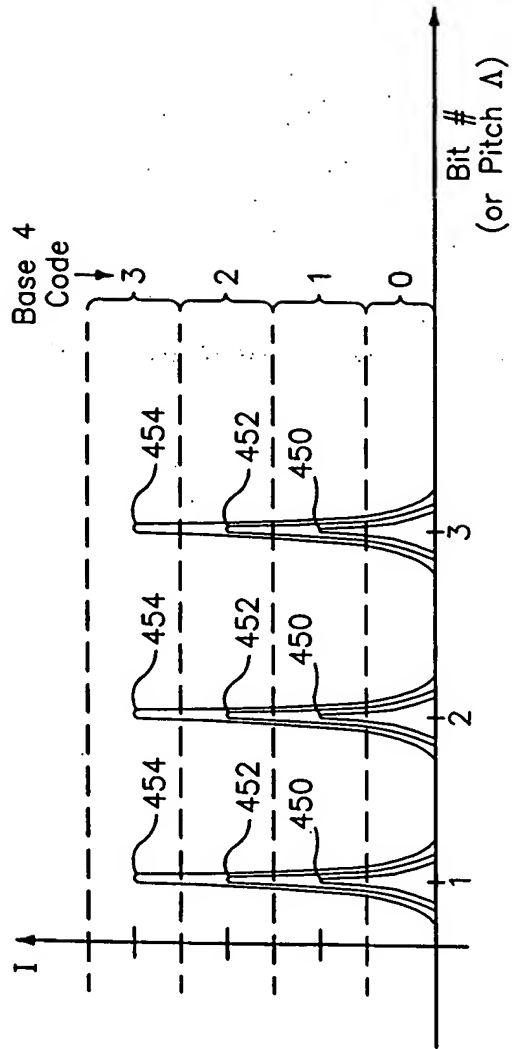


FIG. 21

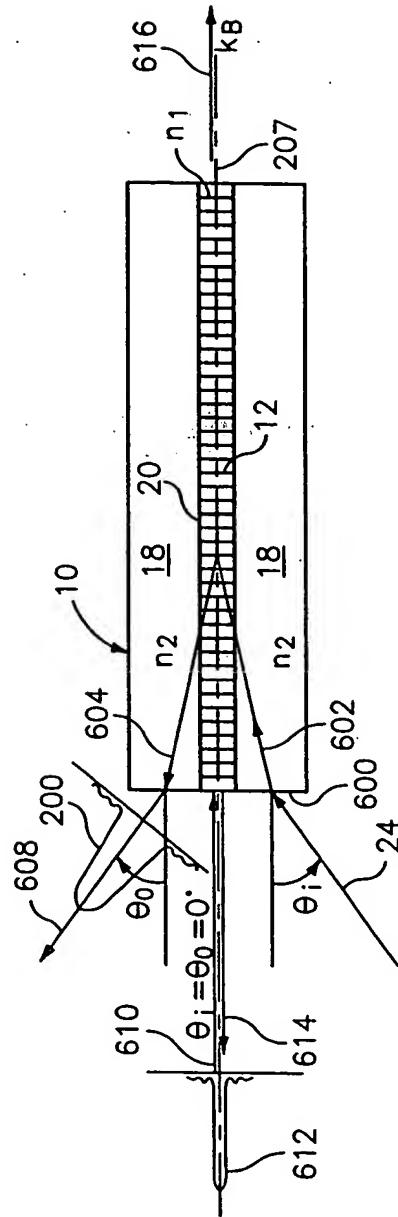


FIG. 22

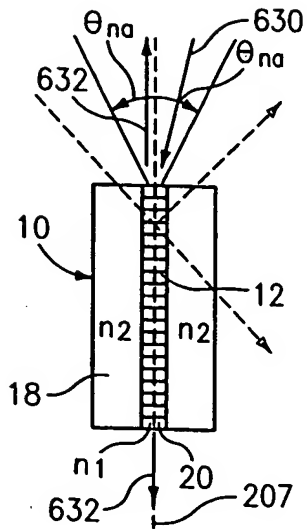


FIG. 23

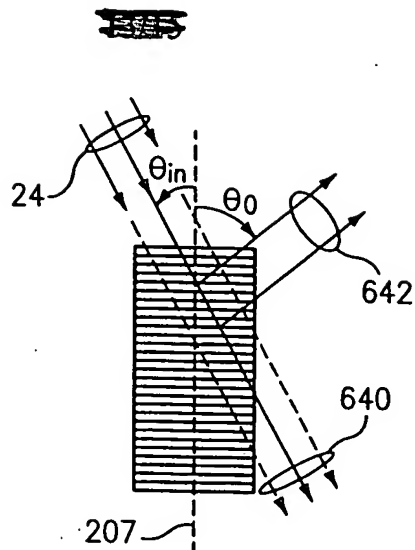
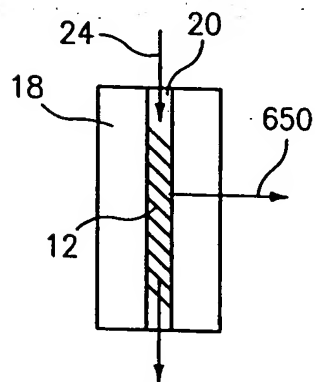
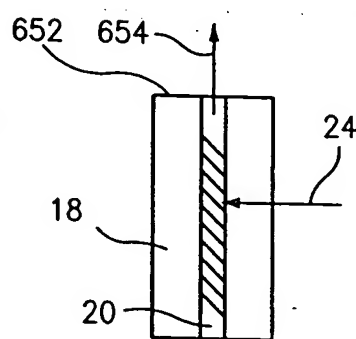


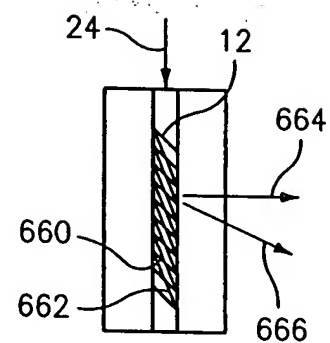
FIG. 24



Illustration(a)



Illustration(b)



Illustration(c)

FIG. 25

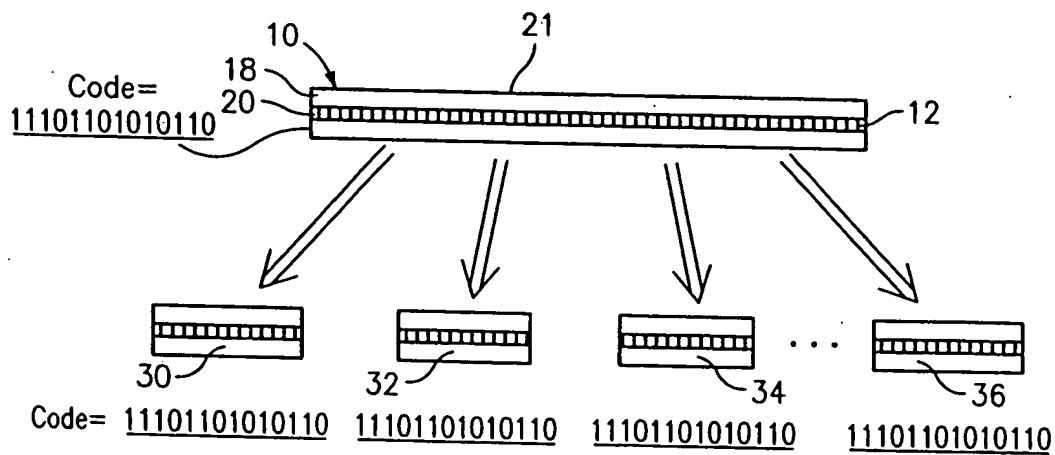


FIG. 27

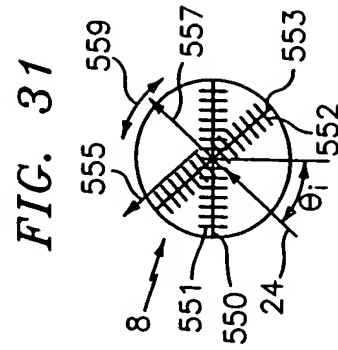
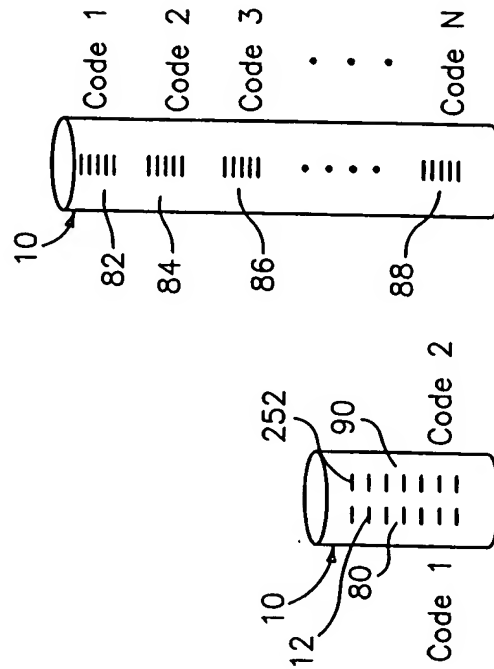
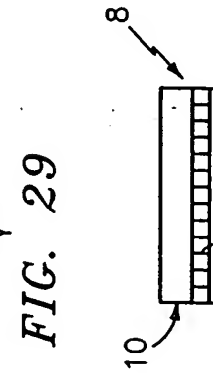
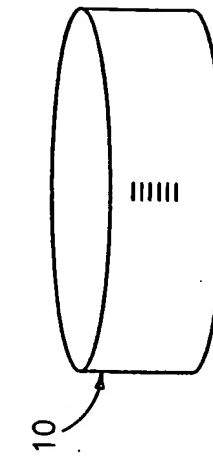
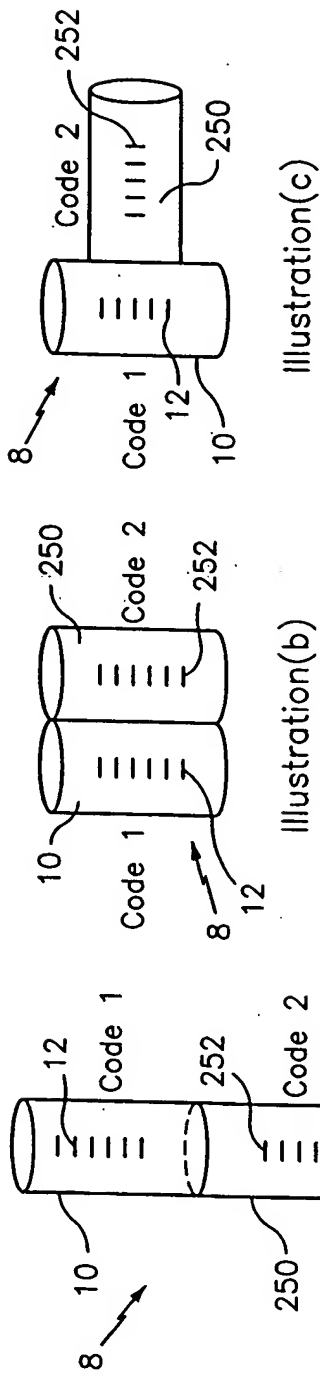
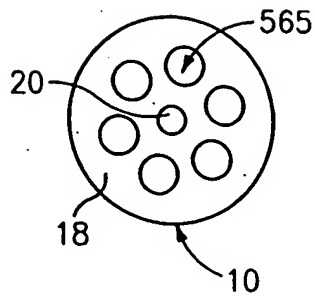


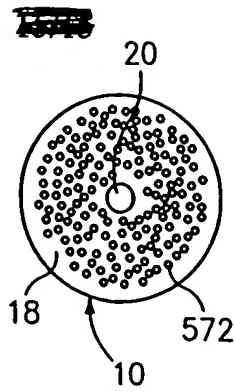
FIG. 33

FIG. 28

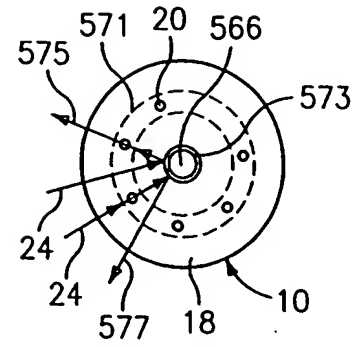
FIG. 30



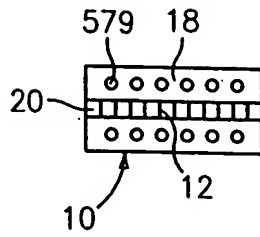
Illustration(a)



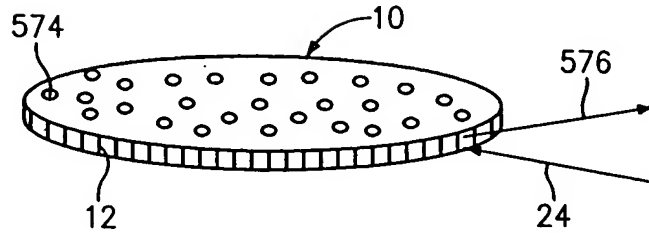
Illustration(b)



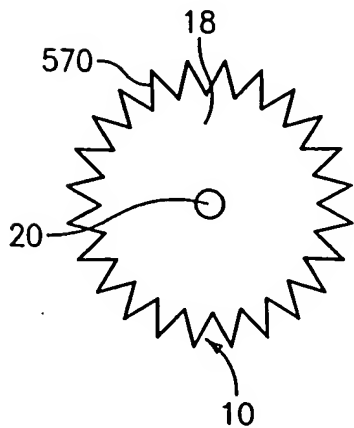
Illustration(c)



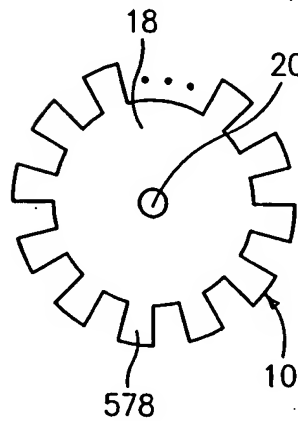
Illustration(d)



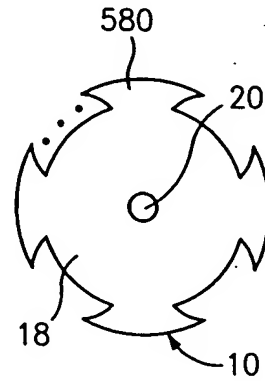
Illustration(e)

FIG. 33

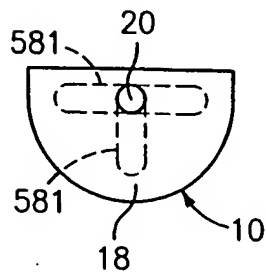
Illustration(a)



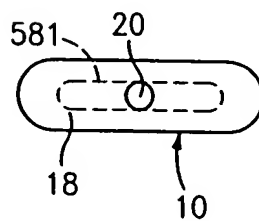
Illustration(b)



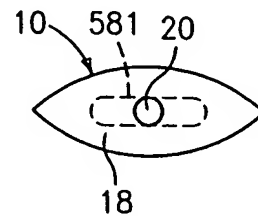
Illustration(c)

FIG. 34

Illustration(a)



Illustration(b)



Illustration(c)

FIG. 35

FIG. 39

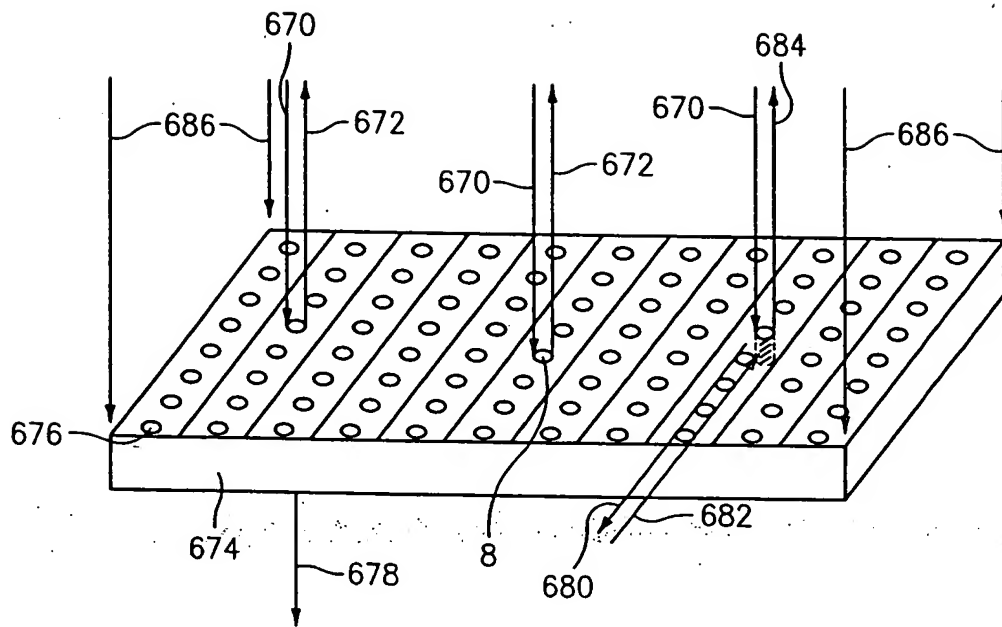


FIG. 40

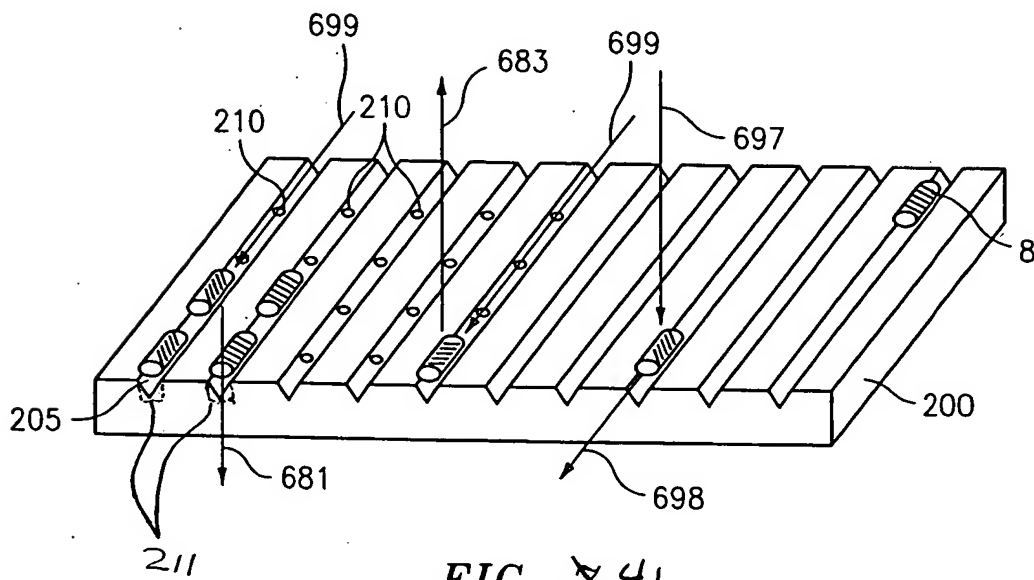
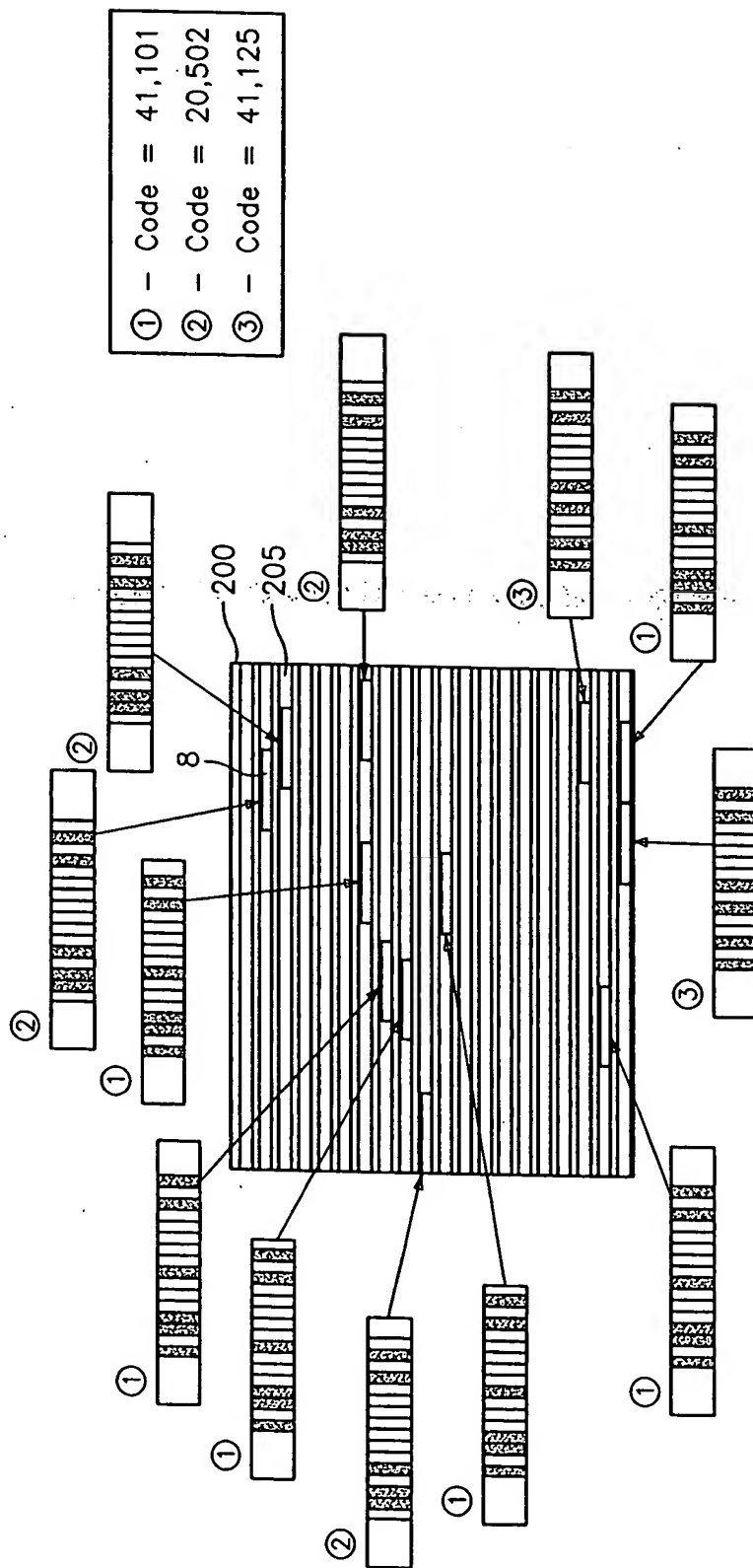


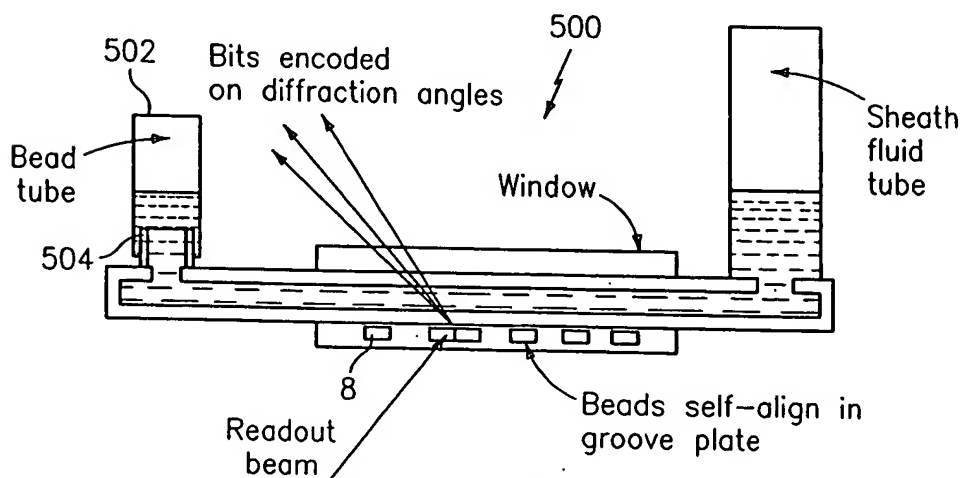
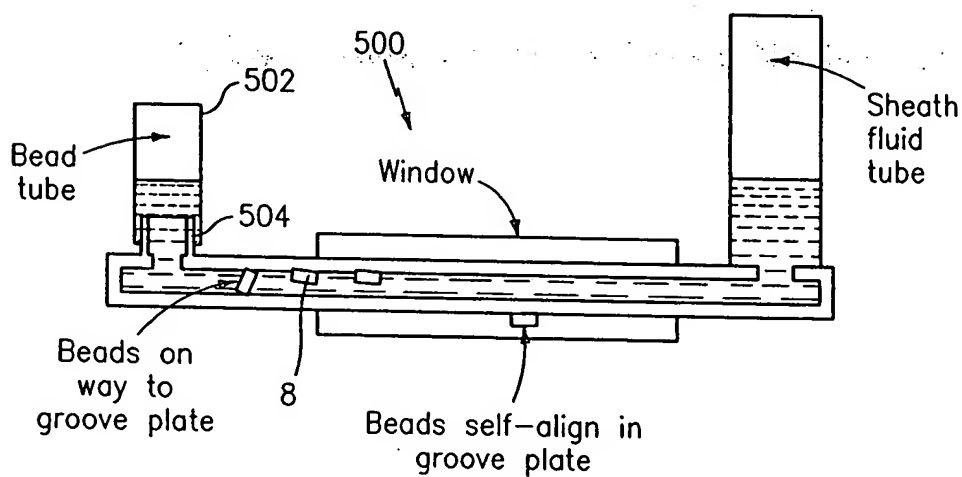
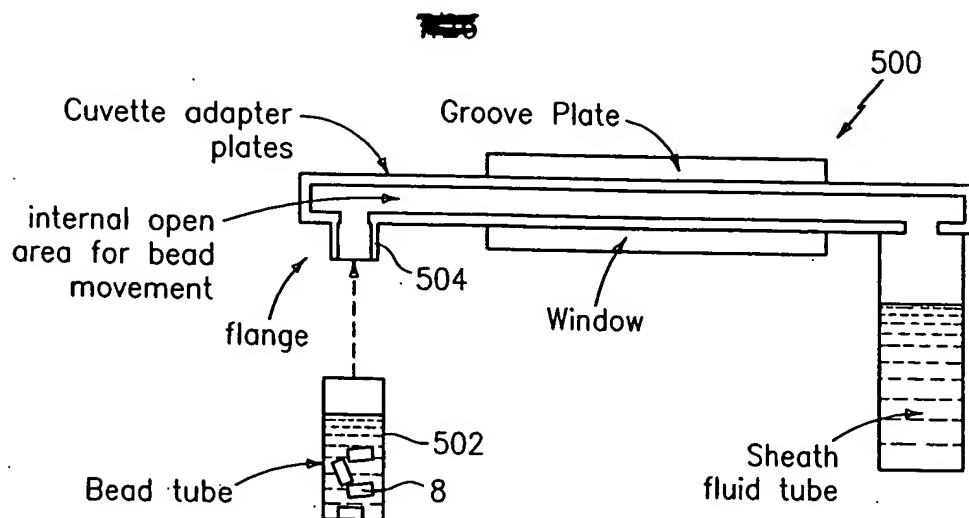
FIG. 41

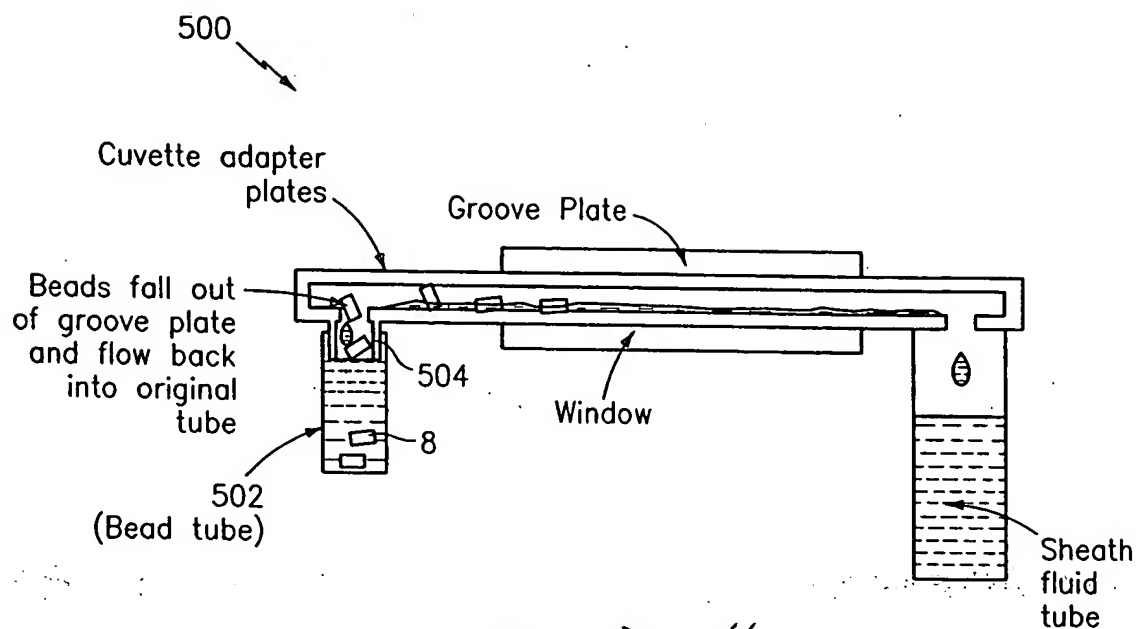
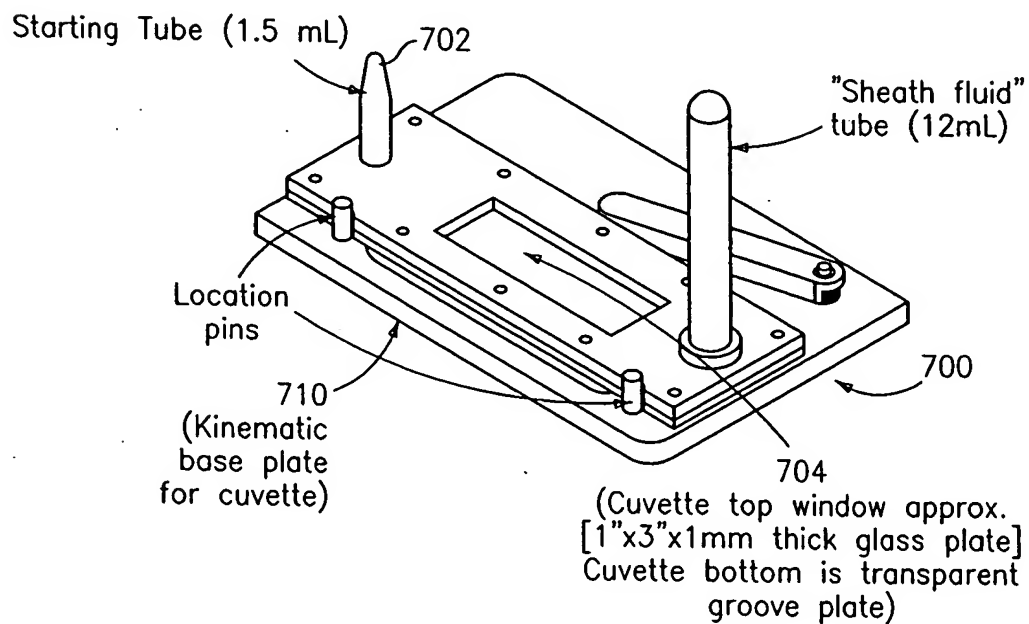
Microbead Mapper Readings

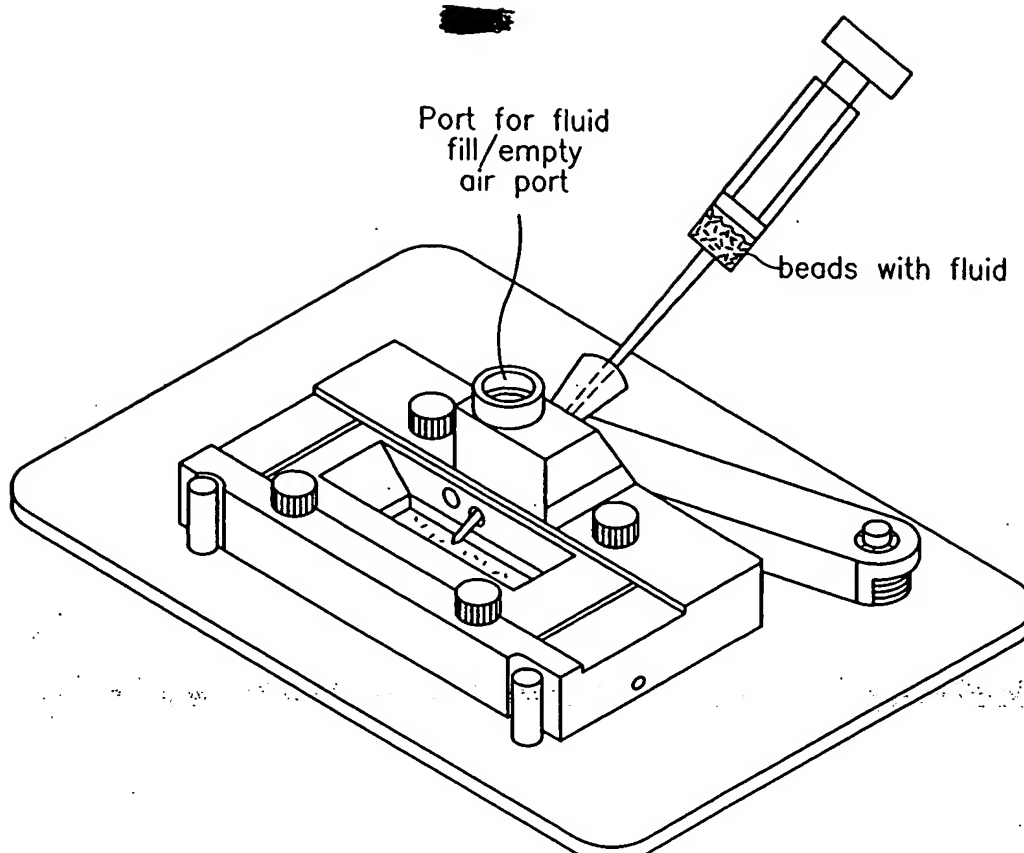
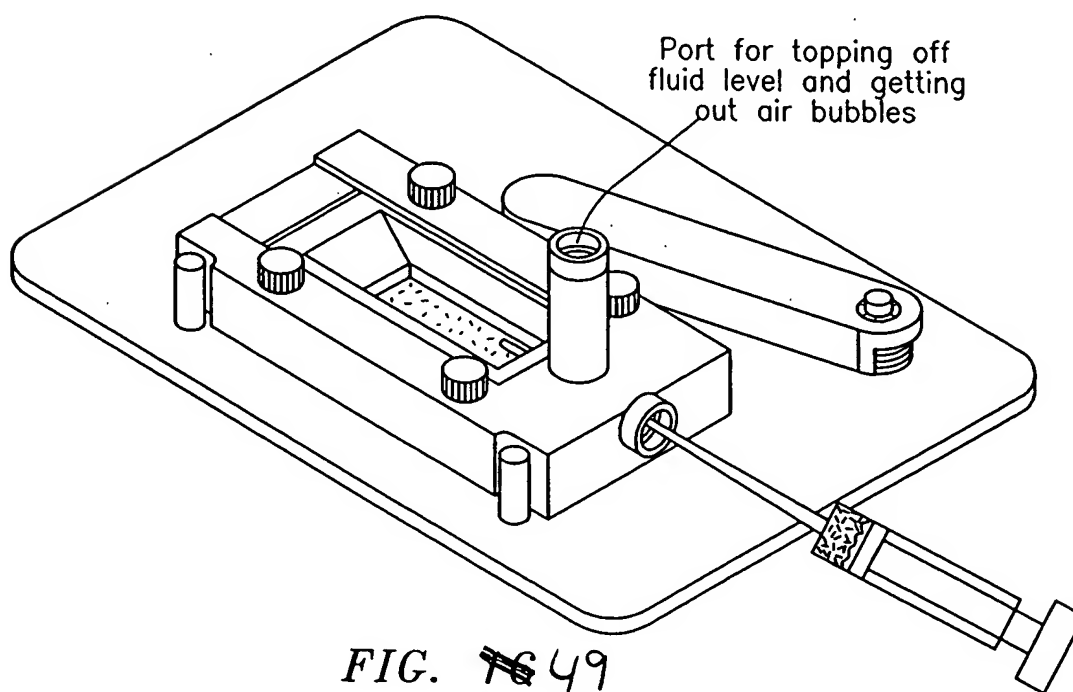


- Three different codes in this set (16 bit, binary symbology)
- Each code can have a different oligo attached

FIG. 842



FIG. ~~46~~ 46FIG. ~~47~~ 47

FIG. ~~75~~ 48FIG. ~~76~~ 49

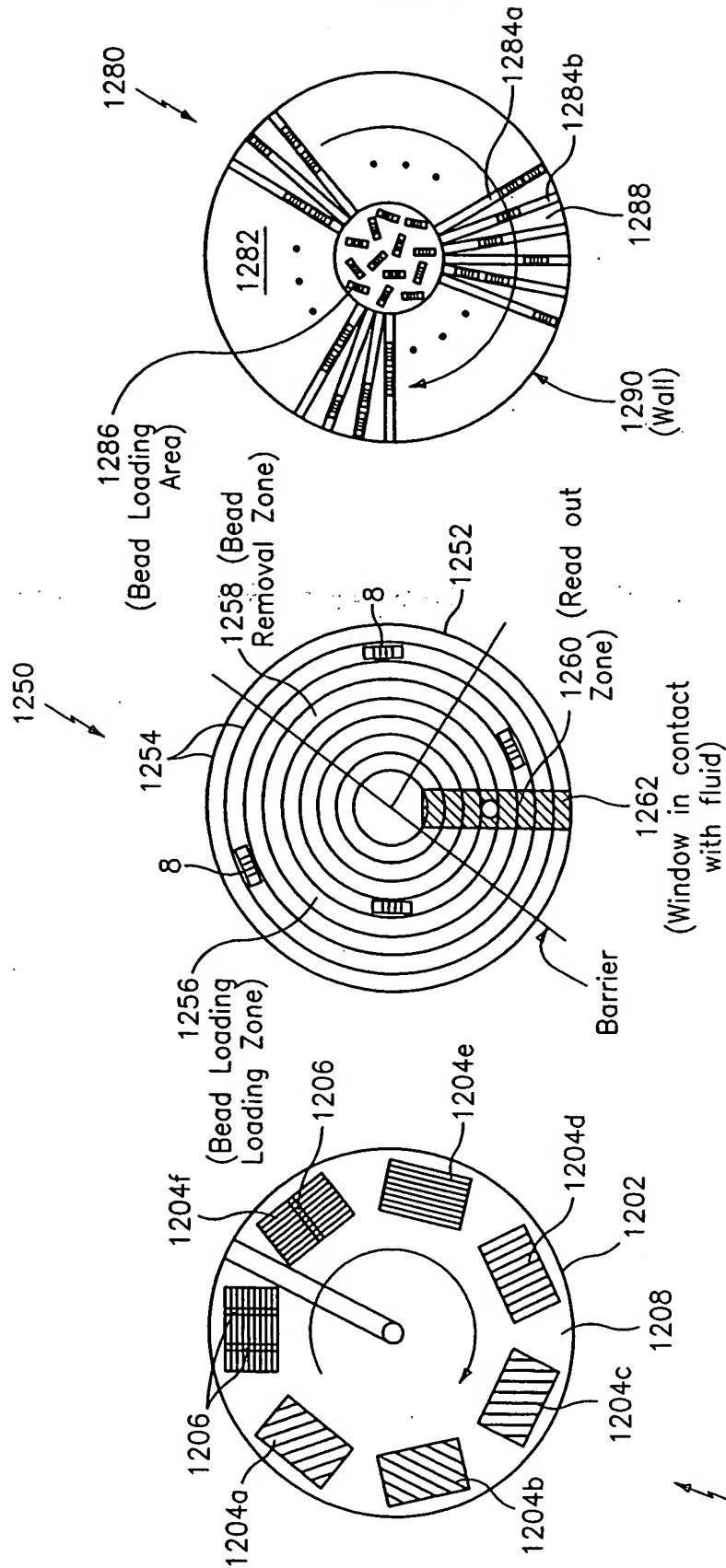


FIG. 1200(c)

FIG. 1200(a)

FIG. 1200(b)

"Cytometer-like" bead reader

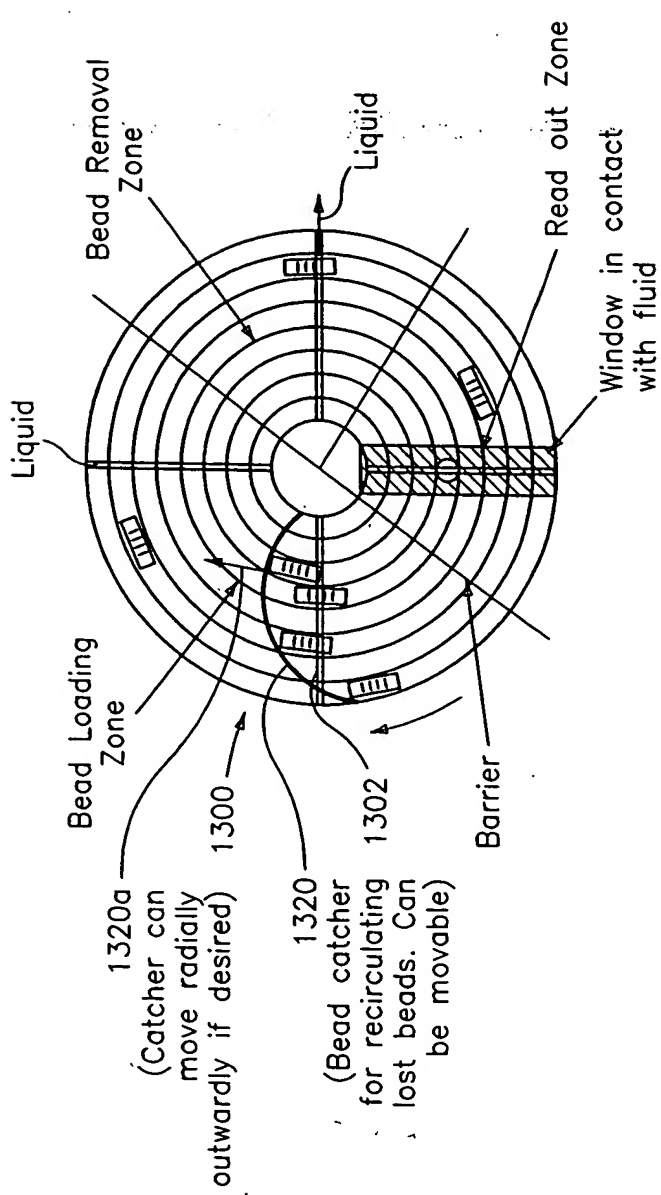


FIG. 20(a)
51

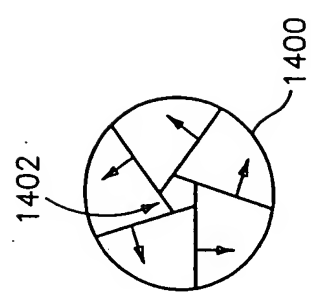


FIG. 20(b)
51

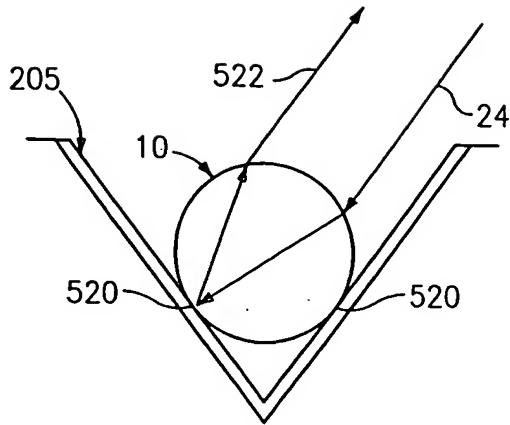


FIG. ~~51~~ 52

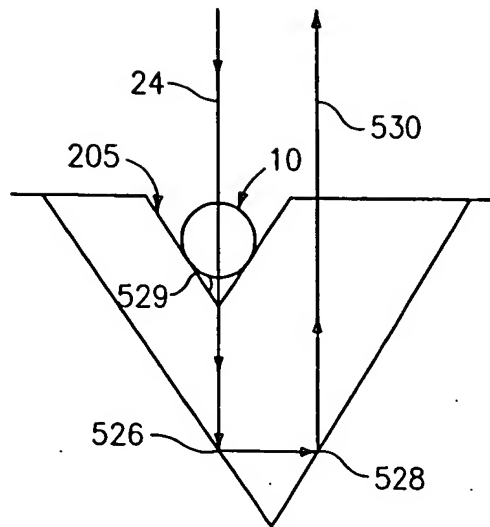


FIG. ~~52~~ 53



FIG. ~~51~~ 54

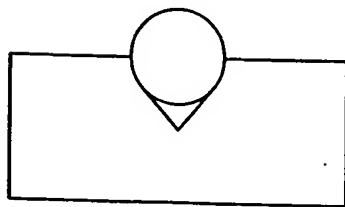


FIG. ~~53~~ 56

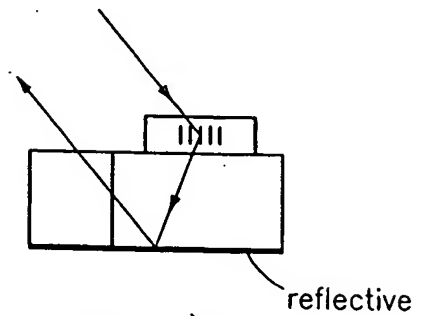


FIG. ~~52~~ 55

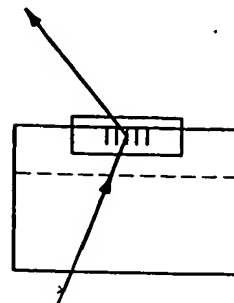


FIG. ~~54~~ 57